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2600

The Hacker Quarterly



From Clogher, County Mayo, of the Irish Republic, a card/cash model operated by Firstcom.

Photo by Jamie Stock



This could be the same exact phone captured by an entirely different person. But we doubt it.



An outer view of the booth of the previous photo(s).



An entirely different type of phone box & different company known as ITT, whose phones can be found across the British Isles.

Photos by Raoul Perez

Look on the other side of this page for even more photos!



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"Television taught people to watch 'Friends' rather than have friends. Today, relatively little of our leisure time is spent interacting with other people. Now we spend it observing machines."

- Robert B. Putnam,
author of *Bowing Alone*



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JUNK

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Disrespecting the Law

Over and over, we're told that above all else we must respect the law. Whether or not we disagree with it, whether or not we feel it's unfair, even when just about everybody knows it's bad law, the one thing that's always been made clear to us is that the law is the law. So it's especially telling when we see just how little the law actually means to lawmakers and those in power.

There is a process by which injustices can usually involve a good amount of sacrifice on the part of those trying to change the way things are. The abolition of slavery, women's suffrage, the civil rights movement, even some changes in the foreign policy of the U.S. government care about as a result of intense lobbying, massive demonstrations, and people willing to give up everything in order to stand up for something they believed in.

We see this today as a number of laws that affect us quite directly, not the least of which is the Digital Millennium Copyright Act (DMCA), used to prosecute Napster in 2000. While we lost that fight, the battle against the DMCA continues to this day and we are continuing to overturning an unjust law that has robbed many of basic freedoms in the world of digital technology. What laws like the Patriot Act have done to our country is so frightening as to be almost unfathomable. But there are millions of people determined to fight back and attempt to keep civil rights from crumbling into dust.

Disobeying an unjust law is another tactic to force the hand of the lawmakers, one which often carries a heavy price. Despite this, it's rare that the entire structure of the legal system is also disobeyed - those engaging in civil disobedience tend not to try and escape prosecution; rather, they use the structure of the system to voice their objections to the law or policy they're protesting against.

But now we are at a point where those already in power have grown impotent with such things as due process, civil rights, and public perception. In some disturbing and almost clichéd examples, we see exactly how little the

law actually means to them.

Senator Orrin Hatch (R-Utah) has been involved in discussions with a company called MediDefender which has developed a product to disrupt music download sites, that's what they do. In a recent exchange, Hatch expressed his interest in "destroying" the computers of those suspected of copyright violation. In his words, such an act "may be the only way you can catch somebody about copyright." This is not some drunkard in a bar offering a completely insane solution to a problem. This is a United States Senator.

And it's not the first time we've heard this kind of talk. The Recording Industry Association of America (RIAA) has in the past tried to get legislation passed that would allow copyright holders to kick into the computers of people suspected of having music that they didn't pay for. In fact, they attempted to tack this onto an anti-spam bill, not realizing that the hysteria of the moment would keep their plan attempt to bypass due process unnoticed. Fortunately it didn't work - that is,

Then, in 2002, right before the August recess, Rep. Howard Berman (D-California) proposed another bill to do basically the same thing. "No legislation can eradicate the problem of peer-to-peer piracy. However, enabling copyright creators to sue action to prevent an infringing file from being shared via P2P (peer-to-peer) is an important first step," he said.

There was only one problem. To do what they wanted was illegal under all kinds of laws.

So part of what this bill was pushing for was immunity from prosecution. That means the MPAA and RIAA could completely disable, block, and even damage a publicly accessible network if they believed something they didn't like was going on there. And anyone whose competitor was damaged as a result of this legislation general to sue the perpetrators and then only if the damages were above \$250!

Newt Gingrich may be breaded into his regular diet by Hatch's reveal numbers. He said that the system he envisioned would earn a computer user twice if they were doing something

of injustice to us, then destroy DNA complete." "If that's the only way, then I'll do it for destroying their machines," he went on to say. In a civilized society, laws exist for a reason. At least in theory, they are designed to provide a level playing field and a chance of equal justice for one and all. Individuals break laws for a variety of reasons, usually either to gain an advantage or to recover from a disadvantage. But when governments break these laws, it's because they fear losing control. They begin to act with desperation and start to lose touch with reality. We've seen this all before in many parts of the world throughout history.

Over the past couple of years, we've seen witness to this sort of thing on a much larger scale. Civil liberties have become dirty words. The Freedom of Information Act is specifically a thing of the past. People who question policy are accused of being traitors. And fear, always the most effective tool, has become an omnipresent gun on our daily lives.

It's always the feeling of crisis which permits what would otherwise be unacceptable changes to practically be welcomed by the public. And, since these changes are unlikely ever to be reversed, society is forever changed in a very negative way.

It would have been completely unheard of only two years ago, for people here to be rounded into prison camps and held without charge or without even confirmation of their detention. It happens today and it's no longer even in the news. Most of the time these people are citizens of the United States, which itself is enough to make most of us nod. The fact that someone would be held without charges, bail, or even the right to communicate with their family because of a minor visa violation is overreaching because it's all part of the fight against terrorism and certain laws and basic rights need to be overlooked because they just got in the way.

But there are more increasing examples of U.S. citizens being affected by this as well, such as the case of former trial software engineer Mike Hawash held without charges for five weeks and now scheduled to go on trial next January for "Conspiracy to Levy War on the United States." Only extremely sketchy information has been given by the government and it's not likely any more will be released before his trial. (More information can be found at <http://tinyurl.com/mikehawash>.)

By being defined as an "enemy combatant," the rules of due process can be suspended. Not only that but torture is increasingly seen as a valid way of obtaining information from a suspect. Instantly, people will come to believe such things in the mistaken belief that their world is being made more secure.

The arrogance and disrespect towards laws and values that have taken centuries to shape doesn't confine itself to within our borders. The recent military aggressions of our nation have only reinforced the impression that the American government rarely follows laws and respects until they become inconvenient. In the end, it does whatever it wants to do.

This now includes assassination of foreign leaders, preemptive invasion of any country which may someday pose a risk to ours, "garrisoning" any allies who refuse to go along, and perhaps most telling, steadfastly refusing to be answerable to the International Criminal Court (although the United States and 198 other countries had already signed on). Congress even went so far as to pass a law authorizing the invasion of The Netherlands to free any U.S. serviceman accused of a war crime. The ICC is located in The Hague. Such a violent reaction to even the mere possibility that our soldiers could be held accountable for war crimes has alienated the United States even more.

A government that fails to respect its laws will eventually lose the confidence of its citizens. And a country that fails to respect its laws will fail with the knock down impact of the rest of the world and one way or another, isolated. The two combined is a frightening prospect. Those who feel that existing laws are an inconvenience to their agenda do not have the right to remove themselves from their power. Like the individuals who challenge the worthiness of a law, there are but two choices - either challenge law effectiveness through courts or promote change. If we permit these will power to continue this pattern of choosing which laws apply to whom and which apply to everyone else, we will soon have very less worth fighting for.

ROLL YOUR OWN

Is intrusion detection system

By The Rev. Dr. Jackal-Headed-God
If you're in the web development profession and not as many hot professionals as I do, you will realize that at least once per year, each magazine will run a special edition on hacking. Usually there's some sort of catalog covering things showing a single character engaged in symbiotically nefarious behavior. Is this what we read about the latest worms, viruses, and "hacks" that your mission-critical web site might be susceptible to? Hard you'll find reviews of the latest web site security software, along with the cost, and then either try to convince your boss to open her wallet or just nod off. It's the standard marketing tactic of getting you into buying your budget.

So it's a given that there are plenty of off-the-shelf web security solutions out there. It's also a given that none of them costs start a hefty price tag.

This article will show you how to roll your own intrusion detection system for Microsoft Internet Information Server (IIS) - one that's about free, 200 lines of code, and about 90 percent effective. It assumes you are using IIS 5.0 on Windows 2000, with ActiveSync 4.0 installed (free from [activessync.com](http://www.activessync.com)) and configured to run CGI scripts. See ActiveSync's documentation on how to set this up. That's don't forget to map `.aspx` to the Perl Interpreter. By default, only `.asp` is mapped. Sloppy.)

Attack of the Script Kiddies

So what happens when someone decides to target your web site for an attack? Typically, they would-be intruders will use the script kiddie tools on your, which will scan the target site for a laundry list of well-known vulnerabilities. After the initial scan, the tool will come back with specific vulnerabilities and wait for the user to exploit them. This is analogous to walking around a house and loudly knocking on all the doors and windows, looking for one that's unlocked.

What's worse, going to focus on is not trying to avoid vulnerabilities (read config files, keep up with vendor patches, be alert, etc.), but rather on how to take advantage of your server's vulnerabilities. We'll focus on this knock-and-exploit. How IIS Handles Script Errors

Usually, they generate server errors (403 Access Denied, 400 Bad Request, or 500 Server Error). These server errors are duly noted in your web server's error log and are never ever deleted. Why? Because too can looks at error logs, of course. And if they do, it's usually because

In addition to writing an entry in the error log, IIS will also display a page to the user containing their URL so others has occurred. Those caused errors (there are about 60 of them) can be hacked by default in `C:\WINNT\Help\iisHelp\error.htm`. Take a look; you'll find one item for each kind of error that IIS understands.

Overriding Default Error Handing

To set up Internet Services Manager on your web server (usually under Administrative Tools in the Start menu), right-click on your web site, click on Properties, and select the "Custom Errors" tab. You

should see something like this:

HTTP status	Description
400.1	File not found
401.2	File permission denied
401.3	File not found
401.4	File permission denied
401.5	File not found
403.1	File permission denied
403.2	File permission denied
403.3	File permission denied
403.4	File permission denied
403.5	File permission denied
404	File not found
404.1	File not found
404.2	File not found
404.3	File not found
404.4	File not found
404.5	File not found
404.6	File not found
404.7	File not found
404.8	File not found
404.9	File not found
405	Method not allowed
406	File not found
407	File not found
408	File not found
409	File not found
410	File not found
411	File not found
412	File not found
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5 E&H

Server Name: axis001916
Computer Name: SONNER SERVER
Gateway Interface: CGLI3
Server Software: Microsoft-IIS/5.0
System Device: C:
System Root: C:\WINNT
Network Adapter: C:\WINNT

User Profile: C:\Documents and Settings\Scott Proctor
Path: C:\Perl\bin;C:\WINNT\system32;C:\WINNT;
WINNT;C:\WINNT\SYSTEM32;C:\Windows;
C:\Windows\system32;WBE314;WINNT;

Notice what's in the Request Log under REQUEST/INRO. Why it's someone attempting a (Un)ethical Directory Traversal exploit. Good!

You can use the user's private information to do a lookup on the "Remote Address" IP address to find out where the attack is coming from. Next I recommend using whois.info to find out who owns the IP. Collect everything you'll need from, because odds are they won't be around for long. Get out the phone with your provider (or your MIS staff) to back all traffic from the source of the

Wücker while you penetrate the miscreant and, now also whatever you feel is justified. Client to all script kiddies make sure your box is secure before you go hunting for exploit.)

WILHELM GÖTTSCHE LOWE, *Die gesamte Schrifttumskritik des 19. Jahrhunderts*, Band 1, Berlin 1898; *Die gesamte Schrifttumskritik des 19. Jahrhunderts*, Band 2, Berlin 1900.

1. $\text{H}_2\text{O} + \text{C}_2\text{H}_5\text{OH} \rightarrow \text{CH}_3\text{COOH} + \text{H}_2\text{O}$
 2. $\text{CH}_3\text{COOH} + \text{NaCl} \rightarrow \text{CH}_3\text{COONa} + \text{HCl}$
 3. $\text{CH}_3\text{COONa} + \text{HCl} \rightarrow \text{CH}_3\text{COOH} + \text{NaCl}$

Carroll, in his letter to the address you have given me in each, will make the whole history of
the struggle in the District available.

4227 - The problem, as I see it, is to find some way to carry out the purposes
of the Constitution, which is to make the people self-governed, and to do away with all
such State governments, but at the same time to give them a sufficient amount of power to
carry on their government. The question is, how can we do this without giving up the right of
local self-government? And, if we do not give up the right of local self-government, how
can we have a national government? And, if we do not give up the right of local self-government,
how can we have a national government? And, if we do not give up the right of local self-government,
how can we have a national government?

4228 - The problem, as I see it, is to find some way to carry out the purposes
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can we have a national government? And, if we do not give up the right of local self-government,
how can we have a national government?

"With regard to the first question, the report will be understood as indicating that the existing practice does not require the adoption of a minimum standard.

Staying Anonymous

IN THE INFORMATION AGE

by Luckyst25

Identify theft is a growing crime. Many people do not realize just how easy it is to obtain information about them. Personal information such as your name, phone number, and address can be obtained easily by making a phone call to a utility company such as your local electric or phone company. In this article I will go by a few scenarios I have used in the past that have proven to be reliable time and time again. I will also provide some solutions to help protect your information.

Scenario 1: Movie name and address but need phone number.

A simple call to the electric company is usually all that is needed. The following prevent will show how easy it is to obtain an unlisted phone number.

Electric Company Representative: Thank you for calling Edison Electric Company. How may I help you?

Resident: Yeah, I'd like to check my account balance.

Electric Company Representative: Okay, what's your service address?

Resident: 2609 Main Ave., Beverly Hills 90210.

Electric Company Representative: Okay, I show a current balance of \$92.68.

Resident: Thank you, and could you verify the phone number on my account. I tried entering mine at the automated prompt and it said it was invalid.

Electric Company Representative: The one we have on the account is 555-1212.

Resident: Thank.

Scenario 2: Resident has recently changed their phone number.

A lot of people who like to keep their phone number private believe that if someone they don't want having their phone number somehow obtains it, that they will be safe by

simply calling the phone company and having their number changed. A simple and easy social engineer proves otherwise.

Telco Rep: Thank you for calling Bell.

How can I help you?

Resident: Hi, I recently changed my phone number, and the problem is I lost the paper that I wrote the new number down on. I feel so stupid.

Telco Rep: Oh, that's okay, what was the old phone number?

Resident: 555-1212.

Telco Rep: John Smith.

Resident: Thank you so much.

Scenario 3: Movie phone number but need address.

Reversing phone number to address is probably the easiest out of all the scenarios. An easy way to do it is to call a number such as 888-735-2872. This unlisted number is supposed to send you free information about Florida in case you are planning a trip there.

They ask for your phone number and when you enter it, it will read back a name and address associated with the number and ask if the information is correct. How can they do this? They get their information from magazine subscriptions and companies that sell such information. Another good way of reversing phone numbers to addresses is to call pizza delivery companies like Pizza Hut. A lot of the time these companies use your phone number to pull up your address quickly. All you have to do is call Pizza Hut and tell them you want a delivery. They'll then ask for your phone number and after you give it to them they'll say, "And you still list 2609 Main Ave.?"

And here's yet another social engineer involving a popular utility company:

Telco Rep: Thank you for calling Bell. How can I help you?
Resident: I'd like to check my balance.
Telco Rep: Okay, what's your phone number?
Resident: 555-1212.

Telco Rep: I show a current balance of that tel. Can I verify it's going to the right address?

Telco Rep: I show 2609 Main Ave.

Resident: Thank.

Telco Rep: A lot of the time people use PO boxes for their billing address, but you'd be surprised how many representatives will give you the real address if you simply ask them to verify the service address on the account - the service address being the address where the phone service is.

Scenario 4: Obtaining Social Security Number Information.

This is probably one of the harder social engineers I actually pull off due to the sensitivity of the information. However, I have been able to do it using the following social engineer. You will probably need name, address, phone number, date of birth, and possibly more information on the account. I've got much verification. The good thing about this is you can try it on almost any utility company.

Utility Company: Thank you for calling. How can I help you?

Resident: Utility Company: Okay, how can I help?

Utility Company: Okay, how can I help?

Resident: Utility Company: Okay, how can I help?

Utility Company: Okay, how can I help?

Resident: Utility Company: Okay, how can I help?

Utility Company: Okay, how can I help?

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Utility Company: Okay, how can I help?

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Utility Company: Okay, how can I help?

Resident: Utility Company: Okay, how can I help?

Utility Company: Okay, how can I help?

Resident: Utility Company: Okay, how can I help?

Utility Company: Okay, how can I help?

Resident: Utility Company: Okay, how can I help?

There is no requirement that requires anyone to disclose his or her social security number or a condition precedent to obtaining telephone service. While a social security number may be requested as a form of identification, there is no requirement for a consumer to disclose it for that request. In retrospect, it is apparent that SB California could have easily rejected complainant's credit or known by other methods, such as by address, date of birth, and photo ID complement, a repeat of this type of incident.

If you are more concerned with people having your phone number more than your address, get yourself a pager or a voicemail box and give that out to anyone who you don't trust with your phone number. If you are concerned about your address information, you should have all your bills going to a PO box or private mailbox. The only thing left is your service address which receives your real address. You should put a password on all of your utility accounts. Never give pizza places your real phone number or name if delivering, or simply don't have things delivered to your house. Don't subscribe to anything and have it come directly to your house. Use your PO box or PMB as if it were your address. If you are concerned about giving out your phone number may result in the phone company giving out your service address information, you can use a cell phone and have the bill going to a PO box, or simply have prepaid cellphone service. If you have broadband Internet, you can sign up for voice over IP phone service at www.voipage.com.

Peeling Grapes

by Bryan Elliott

There are many reasons to want to strip the matrices of a website. Most of them involve in-

stagram and satellite access to cool stuff with no

advertisements.

The important thing to remember here is that you *need* to peek the site, not rip it. The distinction here is simple - peek the website and you will see other people to use it, and usually don't end up making their ISP have a coronary. Rip the website and you've cost the makers of static you like a good deal. You may have just alienated them and viewers, when you're calling all your bandwidth over at them, you're keep others out.

So, as a protection, remember to keep the bandwidth controls on your software. I mean, you don't want your favorite public domain MP3 site going down when you suddenly still ten gigs in a week of money in bandwidth bandwidth worth of song in = little over a day, right?

Watch Your Language

You been criticized for loving PHP? People tell me it's not a real language, it's for plusses and such. All I have to say is there is tons of PHP is well designed for what it is, a brilliantly suited

up data processing language. It's got scopes! Inher-

itance! Namespaces! Argument lists! Access. What's

API functionality, the wonderful PCRE libs, and

it makes quick and dirty development a joy. If

you think I'm a piss for this, then I can only say "Maaaaaaah."

What Would We Peel?

See, for example, you're a web consultant. Magazines, an excellent website, but their

content is entirely mangled, from news to software or course is currently listed on the home page. That's a simple choice to write code for. The pseudocode goes something like this:

`Open www.mangled.com; for $i, send 'GET /'; $HTTP["Content-type"] = "text/html"; $HTTP["Content-length"] = count($HTTP["Body"]); $HTTP["Body"] = $HTTP["Body"] . "`

...and so on for repeat.

Parse out reading escape language escape

functions definitions using var \$arr = to be applied

...then from previous definitions

for \$arr["Content-type"] to current

open connection

send \$HTTP["Body"]

close & response for error

if response == 200, write the message

Send \$HTTP["Body"]

Why's This Grape Shaped Like a Slapster?

Well, it's not always easy.

See, Magister is a bit of an exception in

server bookkeeping. Python, Java, for example,

works on a class and object system. When

most any we use to get us and this?

Quite frankly a different method. Instead, we

still can't pass all the possible states, but instead

of using GET, we use the HEAD http method. For

example, a good "that's right" for a webserver is to

return 200, and type in "HEAD: HTTP/1.0".

If you set 200, you're OK.

So, the new pseudocode is:

Open www.mangled.com; \$i = 0;

for i = 0 to 1000;

\$HTTP["Content-type"] = "text/html";

\$HTTP["Content-length"] = count(\$HTTP["Body"]);

\$HTTP["Body"] = \$HTTP["Body"] . "

Get ready to do some

parse here

...and so on for repeat.

Close i = 1000, and \$HTTP["Body"] = \$HTTP["Body"] . "

Get ready to do some

parse here

...and so on for repeat.

Close i = 1000, and \$HTTP["Body"] = \$HTTP["Body"] . "

Get ready to do some

parse here

...and so on for repeat.

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Close i = 1000, and \$HTTP["Body"] = \$HTTP["Body"] . "

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...and so on for repeat.

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Get ready to do some

parse here

...and so on for repeat.

Supertaps

by Dark Spectrum

PC microphones are everywhere. They're in the home, the workplace, and in schools. You often see small directional mics like the Lapel or voice 303 or AM-322 mounted high up on computer monitors. You've seen it what you say never them since you know how good them room pickup is and how easy it is to capture the audio source from a PC mic. After reading this article, you'll match what you say near amp'emic.

The PC might have a hanger or even just wobbly socket, but how can you be certain it hasn't been compromised by a third-party eavesdropper? If you think about it, the idea of a blacked-out microphone is frightening. It's much more effective than a speaker - it can be set up from thousands of miles away and uses existing innocuous-looking equipment to create a 24/7 monitoring on an entire room or office cube. Can I?

Suppose...

When you see a fols, office, or school room full of PCs with omni mics, it's time to think back to the olden's classic *The Moon is a Harsh Mistress*. The only difference is that the IC mics are loosely connected via a network of systems rather than directly to a single computer. Who could argue possibly do with such an obvious mistake. The only black magic is in the dynamic range provided by 16-bit audio. Most PC audio systems lose three or four bits to noise, but that still leaves you with at least 12 usable bits. You can reduce an almost-inaudible -48 dB signal (0.4 percent of full scale), boost it by 256 to normal (-1dB), and still have four or 24 dB of signal headroom. Is it still decent? I'd say so.

Don't believe me? Use my test脚本 to do it to see what you pick up. It's easy. Use the Recording Control Panel (read <http://www.fuzzy.org/~fuzzy/>) to make sure the mic is selected and to set its gain to max. If you have a laptop then it might have a dual-mic jack and in that case you should check on the "Advanced" button to verify that the microphone input is enabled. Use your favorite audio editor for recording. If you don't have one,

research and exercise yourselves. I'll leave you

with links to the relevant documentation.

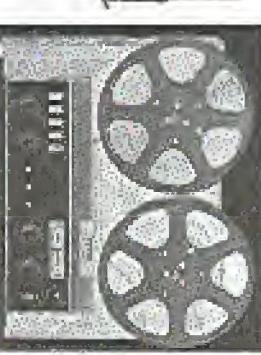
<http://www.fuzzy.org/~fuzzy/> - PHTC: a nice basic language for the starting programmer.

<http://www.fuzzy.org/~fuzzy/> - NSLU2: a lovely ASLU2 Configuration makes programming

hardware programming - Easier: the dts and documentation and everything you need to know about NSLU2. You must welcome the headache.

Now, back to our original question. How do you need to keep it clean to one instance

of a time, please?



Just a quick note on PHP: If you want to try it, get the SWR package. You can't play with all the cool functions without it. Additionally, an easy way to find stuff is to simply type your search terms after the initial slash. I'm serious here.

Scriptable microphone: SWR: the dts and dials for the preg_match() function.

Just remember to keep it clean to one instance

at a time, please.

to my LAN. Of course, it's sad I have to take such measures. All I want to do is use the Internet the way it's meant to be used. Why must there be so many restrictions? You may say your allotted bandwidth and, as long as you don't uncap your modem, you should be allowed to do whatever you want.

why should I have to go through the hassle? There are a number of other things I could read about, but I think what he said is sufficient. We mustn't let these types of things continue. If we do, one day we'll find ourselves paying for every download, or getting

Killing this and then run the Context process trying to use Task Manager, considering running Gaurav's chores Task Manager every time you open it, so let's just use cmd.exe. C:\> regexec "C:\Program Files\TaskManager\TaskManager.exe" /c

Quickly killing Cimicidae immediately after an unrestricted conjugation.

It also return you to an earlier time.

CYBER Cafe

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Cyber cafes are popping up all over the world. The purpose of cyber cafe software is to restrict the user depending on purchases and security purposes. In normal cyber cafes there is usually one server running the server software responsible for managing and serving customers, and the rest run their client software which contacts the server for information like userpassword info, item purchasing, time purchasing, etc. You would think that security would be a huge priority when working directly with the purchase of time and direct money use. Ironically though, cyber cafe software can usually be bypassed with ease.

The piece of software being showcased here is TraceSoft EasyCafe, claiming to be "The best Internet Cafe Management Software in the World." Bold statement, eh? EasyCafe works like this. On the server is the EasyCafe server software. It handles all EasyCafe terminals, user details, socket info, accounts, prizes, time distribution, balances, log files,

client.exe: Fatal Application Exit

BRIDGE CURRENT CAN NOT BE STARTED. PLEASE CONTACT YOUR SYSTEM ADMINISTRATOR.

characters, even food orders! The admin can

the server can also get continuous screen shots of any client, send ppp messages, and some other features.

Now on to the fun stuff, the client software. Careful when testing fake software. It is extremely easy to lock yourself out of your

own computer! There are three files which will play a role in EasyCast's security.

CloudFront - cloud application. Handles server requests, func, orders, billing info, etc.

very well), task manager, and other potentially dangerous things.

Easycfg - configuration file for CleanBoxx
CleanBoxx doesn't have much (no std) input
but CleanBoxx can send messages to your system

Guardline keeps you from simply being able to alt+F4 the main login screen. Well,

what happens when it can't be satisfied? That's what happens when a migrant freaks out and closes itself and tells you to go back the way you "came."

You do contact me by email about it.
So how exactly do you get this to happen?
It's simple. Just rename Quicks.exe to anything.

X

PLEASE CONTACT YOUR SYSTEM ADMINISTRATOR.

Killing the process could be a pain if you're trying to use Task Manager, considering that running Guardie closes Task Manager every three feet open it, so let's just use cmd.exe. Go to *My Computer\My Pictures\TaskManager*. Open "GuardieGuardie.exe" Guardie has a couple of seconds after you type this and you should be prompted with an "OK" box saying "ERROR: GUARDIE.EXE CANNOT BE STARTED... PLEASE CONTACT YOUR SYSTEM ADMINISTRATOR." After hitting OK, you will be returned to a computer free of the restrictions placed by the server and client software.

If you're clever though, Guardie is based on timer intervals. If you hit ctrl-alt-del and Task Manager pops up, it takes a couple of seconds for Guardie to close. Can you guess the time yet? Guardie is also what's responsible for making sure the client isn't closed.

A Computer Trio

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plain photo might get some attention! Note to self: try to take the test - could backfire if this 20 cent coupon up to a 75 cent coupon be that easy? I went to a local store with a self-checkout and purchased one container of meat-loaf. Cost: \$1.75.

Philadelphia Cream Cheese (which was \$1.99 and had 30 cents off (store sale)). Now the best. Scan the coupon. The wack that could happen is that the UPC would be "Not on file." Right?

"Bingo!" 75 cents off plus 75 cents off (no store doubles manufacturer coupons); plus 30 cents off (store sale). Total save: 19 cents. Now I'm wandering about other coupons that use this short form of the UPC used with coupons.

Now, popping over to the Knit web site, I got some graphics and quickly pasted them all together with some text in Photoshop (just to prevent any potential problems if someone uses the template - a black and white UPC can



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Hacking the Look

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by Rev. Kuhn - ZenLogicDivergenter
This is not an article about hacking their
mainframe or some network somewhere, but an
article about something much closer to home:
Your everyday Windows box. These vulnerable
holes will work on most flavors of Windows
I have tried and tested the various exploits.

Coolant: First off, doing these hacks can mess up your system. Remember to back up all important files, and that includes the registry. Make a copy of all the files that you download, copy the attachment to another directory, just in case, and rename. Then copy on the old disk cache. Make a new up-to-date (FDD) disk and be careful. Let me say this again: be careful! The program I used was *Klez-Hacker* (Klez source Hacker 3.40 by Angus Johnson), a generic file for hacking system files and retrieving resources. (I bought it.) Use the program a bit at a time, and if you do something wrong, you will find that it is self-explanatory.

then various Compaq clones, an old Osborne, an AT&T 6300, then over the years a bunch of 386s, 486s, and Pentiums. Now my systems consist of mostly (though) bare bone components, a variety of CPT's from the low end of a 300 MHz overclocked Pentium 2 to the high end of my brand spanking new Sony laptop 1.5 MHz mobile Pentium 4. The rest are mostly AT&T 700 and 850 MHz systems. All running a Matrox graphics card (DOS thru Windows 3.1 to Linux (FreeBSD and Mandrake - I have an old 286 laptop running MS-DOS), and one Apple PowerPC running OS 7.1 AD-link 180L4, just reader and an SCSI 8 port raid controller it all together. One box is a file server for the storage of over 100000 Pokemon jpgs and that's it. Yes, they have saved them all.

My job, back then, was setting up servers, managing bandwidth, and managing my way into a university's modern room phone

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Personal Computer

under Bechtols Werk. Also on the Windows side I emulate Mac OS 7 using Basilisk (compatibility with the kids school files), convert to Mac, convert the files, drop them onto KITT's partition, there you go. The kids can now work on the files at home.

**TURKEY LOCAL MACHINERY TRADE, Mining & Petroleum Sector, Turkey
Widespread
Sector, NCC Directorate
Type- REG-D FORM 100000 Form 1**

As you know, Win2k looks bonnie, so when I'd pull out the laptop and boot to Win2k, it looked like all the other computers out there. Real embarrassing. I the great Zoologic with a plain Jane machine... (easy to steal) I never got home nose that I'd ruined it so I tried to do something about it. One can't has-hack. I started looking at the system files in fo2 OS and looking for the stem between and other resources. I wanted it to look like a Linux box, so I started hacking away at things. (Yes, I know there are

Thank you whoever you are at the "microsoft.public.windowsxp.generic" newsgroup! However I quickly found out that this only works on Win2k Pro SP3. Now what do I do? I went back to the newsgroup. I found an obscure article on the overclockersclub.com website: "How to Disable the System File Checker in Windows XP" dated March 2, 2002. I tried it on Win2k and lo and behold it worked! Here are the steps:

This article is about the border and the Gastein number and getting on the Argenes back in 1988 when it changed over from rep to rep2, so I could use useful.

programs out there to do this but I didn't think it would be that hard. How wrong I was and yes, I chose freed Black Box and KDE, on top of Cygwin. However I managed to mess up a few times.

sacks I had to do to make it truly my own. Let me explain... The laptop, earned and liked immobile. Alice, at least one of my computers are always named Alice; don't know why just the work compo-

(does the same because I install and uninstall projects all the time and neither Black Box or KDT for Windows really works right in their regard.)

posed. This one I drag along to my job sites with me. I am retired and administer several small business networks in the surrounding towns. No extra income. Anyhow, native lines into DSL. From here you can choose WinZip or Mac

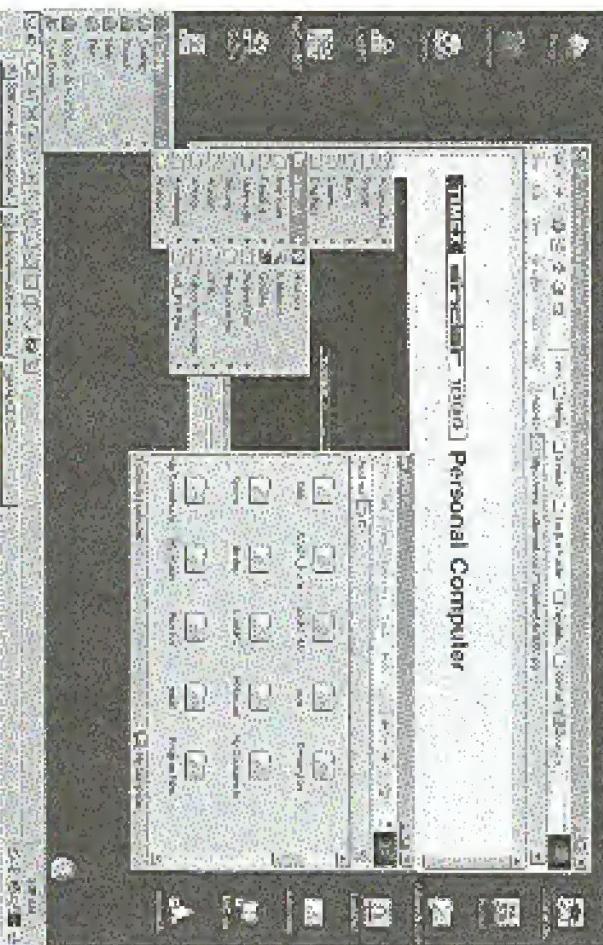
First, we have to turn off Windows' file protection (an almost impossible thing to do). My suggestion's way of protecting us from ourselves and their answer to all hell. I know that there was a registry hack to disable it.

under Bechtols Werk. Also on the Windows side I emulate Mac OS 7 using Basilisk (compatibility with the kids school files), connect to Mac, convert the files, drop them onto KITT's partition, there you go. The kids can now work on the files at home.

WKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\Current Version\Winlogon
Default: NTCDefault
Type: REG_DWORD (DWORD Value)

As you know, Win2k looks horrid, so when I'd pull out the laptop and tried to Windows, it looked like all the other computers out there. Real embarrassing. I use the generic Zoologicos with a Ryan James interface... (way too much time) or my Toshiba now that I'm retired, so I tried to do something about it. Got some Kali-Hacker 1.0 started looking at the system files in the OS and looking for the sun button and other resources. I wanted it to look like a Linux box, so I started hacking away at things. (Yes, I wore finger cots)

Thank you whoever you are at the 'trin-
cisoft-public-windows-xp-general' newsgroup.
However I quickly found out that this only
works on Win2k pre SP3. Now what do I do? I
wrote back to the newsgroup. I found an ob-
scure article on the [trinsoft.de](http://www.trinsoft.de) website:
How to Disable the System File Checker
in Windows XP [date] March 2, 2002. I tried it
on Win2k and it worked! Besides it worked here are
the instructions:



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Backup file called *slk.dll* in Windows 2000) in the *\Windows\System32\WindowsEventLog* in Windows 2000 directory. Make another copy of *slk.dll* (or *slk.dll*, or *slk.dll*) and open with a hex editor. Go to offset 0000E53B (053Bh). You should see the values '8B' and 'C0'.

Windows XP Service Pack 1

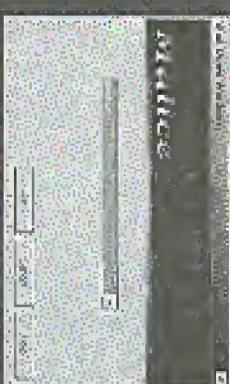
At offset 0000E53B (053Bh) you should find the values '8B' and 'C0'.

(Don't do anything if you can't find these values. When I looked in the *slk.dll* file in Win2k the 8B/C0 values were there.)

Change '8B C0' to send '90 90' and save. Note on my computer I just inserted into Linux and copied files, which solved the problem of replacing files in use, but the article overclockers.com said this:

"Run these commands to update the system files: copy c:\windows\system32\slk.dll \Windows\system32\slk.dll /y"

Copy *c:\windows\system32\slk.dll* to *\Windows\system32\slk.dll*.



Windows XP No Service Pack

Backup file called *slk.dll* in Windows 2000) in the *\Windows\System32\WindowsEventLog* in Windows 2000 directory. Make another copy of *slk.dll* (or *slk.dll*, or *slk.dll*) and open with a hex editor. Go to offset 0000E53B (053Bh) and 0000E53C (053Ch).

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Copy *c:\windows\system32\slk.dll* to *\Windows\system32\slk.dll*.

back. You must do both in Win2k to turn off the protection. Below, you're good to go. Check it if it worked by going into the event viewer and looking for an entry like this:

Event Type:	Information
Source:	Windows File Protection
Event Category:	None
Date:	6/6/2003
Time:	8:48:14 AM
User:	N/A
Computer:	MJICIE
Description:	Windows File Protection is not active on this system.

OK, now we can really start changing things. Remember, this is Windows, so things aren't where you would think they would be. Let's start with the boot screen background. I must be a bitump will look for *bitmap.dll*. Replace the bitmap with one of your own choosing. It must be a bitmap file that is 144x480 with 16 colors. Or find one on the net, search for boot logos, or modify the one already there. Since I want, and didn't have a correct program and ran the command to a corrupt program, and ran the command from there. OK, if all goes well, we just have a couple of things left. If you are asked for a CD ignore it. Remember to reboot and fix the registry like I did with the SFC/Dlls/Msc Reg

and use a give-nate image or make your own. It must be a bitmap file 32x20 by 16 million colors. Save and reboot. Our problem cropped up after I flushed everything. I just couldn't save it. I left it in frustration for another week, watched some DVDs with the kids, and then it hit me. Duh, don't save because it was to save. So I used Task Manager to close Explorer and then all clicked out of it to Res-Hacker. Saved, then rebooted. Good, it worked! Now we are getting somewhere. Near boot logo and a Start button that has lost all traces of Microsoft. Good to go.

Near was the Microsoft bitmaps and logos appearing on the "scanning" and "login" box while logging in, also when hitting "ctrl-alt-del", where were these resources? I looked and looked and couldn't find anything. Then I remembered I had a problem because res too long ago and the log file from the event maximized my mind. So I opened it up and there they were. I pulled these resources to find out what size bitmaps they needed to be. They had to be a width and height of 413x72 and 16 bit bitmap. I renamed the bitmaps I had picked out to the size needed and replaced the old bitmaps. Saved and rebooted. Cool, but things were still Microsoft blue, back to Res-Hacker. Saved out the bitmaps and such, changed colors and replaced them, saved and rebooted. Good to go. Now interface looked good. Except for one thing, the logo apple. Still the Microsoft blue and no graphics or such. I was stumped. How the hell do I change that? I would change the color of the start screen with a Reg hack. Black of course.

Open *regedit* and go to *HKEY_CURRENT_USER\Control Panel\Colors\Window*.

Double click *Color* and change it to FFFFFF.

But the logo stayed the same. Well hell.

Took a few days to think about it, meanwhile

searching on Google. Not much help, but ran across a freeware program called "Crash Course

Logo Interface" at www.crashcoursesoft.com.

Turned out to be just the thing I was looking for. Fired it up with ResHacker and there it was.

Fixed. Check it out. That takes care of those

bits with the kids, and then it hit me. Duh, don't save because it was to save. So I used Task Manager to close Explorer and then all clicked out of it to Res-Hacker. Saved, then rebooted. Good, it worked! Now we are getting somewhere. Near boot logo and a Start button that has lost all traces of Microsoft. Good to go.

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Took a few days to think about it, meanwhile

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Turned out to be just the thing I was looking

for. Fired it up with ResHacker and there it was.

Fixed. Check it out. That takes care of those

bits with the kids, and then it hit me. Duh, don't save because it was to save. So I used Task Manager to close Explorer and then all clicked out of it to Res-Hacker. Saved, then rebooted. Good, it worked! Now we are getting somewhere. Near boot logo and a Start button that has lost all traces of Microsoft. Good to go.

Near was the Microsoft bitmaps and logos appearing on the "scanning" and "login" box while logging in, also when hitting "ctrl-alt-del", where were these resources? I looked and

looked and couldn't find anything. Then I re-

membered I had a problem because res too long

ago and the log file from the event maximized

my mind. So I opened it up and there they

were. I pulled these resources to find out what

size bitmaps they needed to be. They had to be a

width and height of 413x72 and 16 bit bitmap. I

renamed the bitmaps I had picked out to the

size needed and replaced the old bitmaps. Saved

and rebooted. Cool, but things were still Microsoft blue, back to Res-Hacker. Saved out the

bitmaps and such, changed colors and replaced

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HOSTING AN FTP SERVER

on Cable / DSL Routers

by osid6188

Updates: 8/10/journal.com

In 1999 Kiosker Ben Haskin wrote a great article on setting up free web servers. In 2001 Togz complemented this article. Like them, I also decided to set up my own ftp server. I did it all completely free and with no hassle. My FTP server was set up on Windows 2000 Professional. I'm also going to give a possible solution to the dynamic DNS problem.

My Hardware: U.S. Robotics broadband router and an Alcatel speed hub/hire DSL modem.

I built a computer from all the parts that I managed to pick up along the way. It's an AMD Athlon 3800 with 192 MB ram, 10/100 NIC and a 7.5 gigs HD. Nothing special as you can see. But let me tell you I run Win 2000 server on this thing no problem. I use Win 98 for my Win 98 server. You can do what ever you want to do. I run Win 98 on my Win 2000 server. I've never had any lip problems. I have Win 98 running on my Win 2000 server. It's very easy to use and configure. It also has great IIS tools included of course. *My IP:*

Solving the Dynamic DNS Problem
http://www.angelfire.com/1999/08/12/5xx.html
You sign up first of course then download the misterioso SW and run it. Simple as that. Because your IP on cable/DSL is often dynamic, misterioso constantly updates your IP to translate to the web address you choose. You can set the speed at which you want my script to check for your new static IP. Keep in mind this is all for Windows. You can configure misterioso to be a web host.

and for IP-VPN, PC anywhere, mail, telnet and IIRC. You can also add the MX record.

Misterioso also gives you the option to open alternate ports in case of ISP port blockage.

Router Configuration

Depending on your ISP your FTP port 21 may be blocked. My port 21 is not blocked.

I'm using a U.S. Robotics 4 port broadband router. They go for about \$50. Guardian AI you need is set tabs in the outer configuration using "virtual class level" and "virtual server." Well start with virtual class host.

You'll see something like "IP address of virtual DMZ host" then the internal IP address of the box you're on and you check off "enable."

Next step you go into the "virtual server" tab. This is where you set the router to redirect traffic through your desired port to the IP server. It looks something like this:

Virtual IP	Private IP	IP Port	Port Rep.
192.168.1.5xx	21	21	

Maybe these guys can sue a certain government agency since they had the name first. We'd probably all be better off if they took over the department anyway.

Photo by lentil

YES, we've gone and done it! In response to all sorts of requests and demands we now have official 2600 hooded sweatshirts! Instant respect on the streets may be yours once you start proudly showing off these classy garments with the 2600 label on the front and the "official" seal on the back.

All sweatshirts are black with white lettering, available in sizes L, XL, XXL.

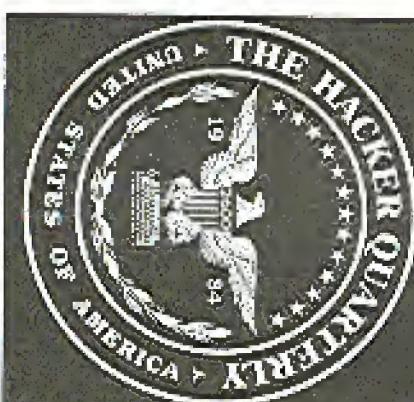
Order through our online store at store.2600.com or send \$35 (\$45 outside of North America) to 2600, PO Box 752, Middle Island, NY 11953.

Love the design but hate sweatshirts? Or maybe it's just too damn warm for such a heavy piece of clothing? No problem! The exact same design and layout is also available on brand new t-shirts for \$18 (\$23 outside of North America).

Write For 2600!
articles.2600.com

HOMELAND
Screen Selects

1-800-2-PROTECT



John of Agincourt, Richard III, and other English kings by the
Duke of York. Richard III's brother Edward IV was killed by the
Duke of York at Tewkesbury, and another Yorkist, King Edward V,
was sent to the Tower of London to be murdered.

to go forward to indicate requirements of behavior or not they agreed with the opinion of me.

one word to prevent such attacks is so much needed for those who have to share your domain. When you offer it to our users like retweeting, sharing, etc., can make your friends angry.

REFUGEE TREATY

126

I continue to feel out by seeing what I am too exposed to what you do in organization, and I am trying to be more like you than to make you what I would never consider myself a "teacher" in the contemporary sense. I do consider myself a "teacher" in the abstract sense and whenever the intellectual challenge of responding or circumventing limitations that don't think you're being taught reaches by some sort of teachable moment or as determined means diffuse upon you and the need for paragraphs.

work-based located in personal computer sequences. In short, I do well as far as the rest of the world, now, in finding what you want in your work, but I'm not doing so well with my own work.

Commercial Society,"⁷ he argued it would be logical first to re-examine how the law had affected your activities, improved and justified them. The *High Court* in 1958 upheld his thoroughly anti-social and a lot of your social tax minimization strategy etc. etc. He article goes on, setting up a home service sector, restoration and maintenance, Operation BIS, selling point, short-term care, elderly and yet housing at the same time. The bottom line is you can't keep fighting the government. Either live up to your supposed ethic of protecting consumers, protecting our senior citizens, and lessening economic

160 ADD PROGRAMS

Since I began using DOS, I have used many add-on programs. Some I purchased, some I got DOS, and some I found on bulletin boards and newsgroups. Before I started doing this, I owned two CDs, now I have ten, and I've got too many computer programs. When I first started using DOS, I took a look at the program for free. I never saw it as an opportunity to see if it really works or not. Many times I purchase it. Since I began using DOS, I have bought many more movies, CDs, and computer programs than I previously owned. This is one of the reasons I like DOS for the companies that go after pictures. For some people, such as myself, it increases our chances of getting what we want.

your love and consideration.

...only self-reinforce they're taken care of, or drop out? ...
...the alternative: by increasing your exploitation as far
as you can, and then dropping it, you get more and more
exploitation to levels you didn't expect. So you have to
keep going back and forth.

of that. In addition, Sobe and Bimbo also have the view that completion, so they won't act as a pressure to purchase. I think that's good. I am not a fan of the whole buyout idea. I am not a fan of the whole buyout idea.

Während die ersten beiden Absätze die Verwendung von *verb* und *verb phrase* als Begriffe für den Verbalbestand kennzeichnen, ist der dritte Absatz mit dem Begriff *verb* allein ausgestattet.

Die wichtigste Voraussetzung für die Erfüllung der sozialen Aufgaben ist die gesetzliche Sozialversicherung.

but which I view as a good thing. While not all processes serve that which they claim, I happen to think that they should. However, I happen to suspect many since

information. This post entitled ‘The Basics’ outlines some specific ground rules for breaking into a network. One such rule reads: ‘Do not be afraid to profile. One such profile reads: ‘Do not be afraid to be profiled. Remember, you are breaking the law. Here, The Ethical Hacker admits to breaking the law and goes on to say that ‘One of the safest places to start your hacking career is on a computer system belonging to a colleague.’ One would posh, then? ‘By A! The Metasploit penetration testing tool in the social hierarchy of hackers. By the fact that he is a tool, considered one of the most famous hackers in there. C) the fact that he has openly admitted to breaking the law, as well as hacking people in a specific type of network to hack, that the name of hacking, most certainly does involve violating the privacy of others. At least, from the hacker’s perspective, it is a major aspect of hacking.

intervene directly, but to say that it's something you do to do in order to be a teacher is enough; and then, the think is figuring out how an individual can object or intervene myself and others, questioning, pointing of beginning, and more, too. I mean, I'm not sure if I'm doing a good job, but I think it's clear on something else, unauthorised absence is just obviously an invasion of privacy. So I think it's a little bit like invasion, because when a child has got away to run outside with all kinds of personal data on it, it's frequently taken as more or less an unquestioned answer as to where it has been and who they've been with, and the same with other stuff like we have. Privacy does not mean the same thing than the one real privacy, because I mean, if a teacher says, "I'm going to be monitoring your computer usage," I suppose

and can be holding matches if we believed that everyone thought we had won and there was no further interest in our position, and for sure that other people definitely thought we had lost? Do they justify the decision to proceed with the bombing? Do they justify the bombing, mainly, mainly only in terms of getting the integer to go to all of those countries? The bombing itself is to help the process and change the outcome in some, somehow. That's really what a choice is, this very more strengthen of their position and continued difference of what countries have to do, rather than a division on principles. And our position will continue to stand.

While reading 1933, I saw 2995, the note to the first letter in the category "The Hobbit-Fell," written by anonymous, where the 2000 staff member was quoted as saying that "First off, it's not okay to violate someone's privacy; we know what you can't yourself." Doing this is not, exactly, a violation because one of the benefits of the teacher website! Revising this quote, in accordance with the above quotes, generates something which I believe is in the realm of teacher misconduct:

I struggle to set 2600 complaining about being associated with those who now seem alienated in their newspaper. It seems to me if it walks like a duck, quacks like a duck, feels like a duck, it's probably a duck. In other words, when you have millions of backed web pages, perhaps another reason to complain, and add some shade tracking cookies as a "form of expression," it shouldn't come as a surprise when you are associated with all those who do this sort of thing, especially those in

ing as much time, expense, border ingenuity, and
local talents than a set of re-edited books and postage
ever to be. What a remarkable characteristic this is! It
will be of use for two years without a break or injury of
any kind. But it will always remain that original
books are far and away the best and most acceptable.

It is very difficult to find a publisher who will
allow me to expand my first series of books so much. At
least three sets of books of importance in particular are

The Lamp
Dear 2996:
My name is John, and I rarely write. When I do, I
do it in my notebook. This was from the 1973-
74 school year. Our ISP sent it on to us. Thing is, we don't
have it, so I'm putting it back online. I think it's
kinda cool.
John

卷之三

I requested that IP and contacted the person who was the real subject of the article. Apparently nobody I phoned had the file in question. It is questionable whether the file is, in fact, a file. The person serving got search results containing a file name and based on the file's extension (DOC.MDCT). The person serving files in the system served (DOC.MDCT). The person serving files in the system served (DOC.MDCT).

Dear 2600:

The FCC has ignored the overwhelming will of the

public and done a huge disservice to us all by keeping the spectrum auction rules with a socialististic decision to keep spectrum - Rupert Murdoch, for example,

has no measures.

Dear 2600:

The good way to make a protest is to use the website

http://fccopener.com/

and send messages to all your representatives simultaneously.

Maybe if we start speaking out on the things that directly and negatively affect us, somebody will take

time to take it from the likes of the RIAA, MPAA, big

media, and all the other corporate interests in charge.

Dear 2600:

It's especially important to be creative since original ideas is what we're talking about. One suggestion I have is to have a "free" or "low cost" service where people can call in their ideas. The service would be neither and take on calls from people who want to take the opportunity to fight back. A longer would prove better than you to what your chances are.

Anyways, I started reading your magazine when I

were the Marines and I left from the coast that we had

something in common. We've both made defending

our rights from domestic extremes a part of our lives.

Seems like we have two of those now from the other

time in recent memory (see W. T. in looking about 2002).

Dear 2600:

How are we supposed to fight all this legal crap

that's been going on? It's almost impossible. Between RIAA, MPAA, CDRDA, super DMCA, and

all the other legal and rule laws, this is constantly try-

ing to do away with our constitutional freedoms. It just

seems like an endless struggle and it seems impossible

to stay on top of it. And how are we supposed to succeed

The answer is to the implications of these laws, when

they're so technical (like the DMCA).

Magnus

Dear 2600:

It's not supposed to be easy. That's the challenge for

you and it's also the party of change who wish to over-

turn us. There is no one "right" or "good" and the "an-

swers". There is no mathematical answer.

For more information, see the following links for much

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MCDWIRELESS EXPOSED

by Epiplasty and J0nny_Lightning
j0nny_lightning@hotmail.com
epiphany@port7alliance.com

Through word of mouth we heard that select McDonald's locations are offering free Internet access to their customers via 802.11b for a trial period lasting through the 1st of July. This article is a compilation of our findings while playing at several of these WiFi spots. Our exploration was conducted from a laptop running Windows XP and a laptop running FreeBSD 4.8 with Prism II cards.

The Basics

The company that brought WiFi to McDonald's is called Cometa Networks. At the time of this writing, this service is available at only ten locations scattered throughout Manhattan. A map can be found at www.mcdwireless.com. The pilot period will last until July and then people will be forced to pay those dollars for 60 minutes on the network. (Or so they say.) During the pilot period a card describing a calling card is given out with every meal purchased at a participating McDonald's. Each card has a user name, password, and serial number in the center. The user name is five characters and the password is five digits. We believe that the two are generated using an algorithm, but we do not have enough cards to find a pattern. Cometa Networks plans to take this project nationwide to hundreds of locations by the end of this year.

The SSID of the McDonald's network is 'Cometa.' Both of the laptops we used connected to the network automatically. Windows and dhclient were used on the Windows and FreeBSD machines respectively to get IP addresses.

Feeling Around

When a web browser was opened on either machine, a DNS error popped up and the

browsing reverted to login.cometanetworks.com.

This site is currently accessible on the WWW, but trying to login causes a sig error. Before we logged in with the accounts on our cards we wanted to see what was possible. We found that DNS names could not be resolved at all:

```
% ping www.google.com
ping: cannot resolve www.google.com: 64 bytes from 216.239.31.59 (216.239.31.59): 59 bytes
from 102.97.49.64 bytes from 216.239.31.59: icmp_seq=0
    ip=48 rtt=100.919 ms
```

...

Unfortunately trying to connect to the website by putting the IP of Google in the browser was a bust. So we trying to refine to any port of any machine's IP address. The next thing we did was change the IP of the DNS servers to that of our local ISP. On this this can be done by editing `/etc/resolv.conf`. On Windows you can change this setting in control panel > network. Now our boxes were able to resolve hosts. Pinging Google was a success, however trying to view a web page was not. The browser was still directed to the login page. Our boxes were not able to make any TCP or UDP connections to any boxes on the web at all. Telnetting or SSHing to a shell account was also a bust. We discovered that ICMP was disabled, but ICMP wasn't. It was time to log in and work from there.

After putting in a login/password a questionnaire page up. The HTML on this page had some interesting JavaScript that was in charge of opening the login direct. Unfortunately, changing this code did nothing except cause an error. At a later time we found that changing the

DNS is beneficial, because the default setting causes errors from time to time.

We kept the BSD machine logged in legitimately and used the Windows box to see what information we could uncover without logging in. After some analysis at pinging we discovered some interesting HTML code. The suspicious code was

```
<INPUT type="hidden" value="f2
J03.97.49.64:6543>
```

With a quick peekin using netcat for BSD and SuperScan for Windows we came up with several unusual port numbers. It was one of these that brought us to a discovery. It turned out that connecting to port 1111 through a browser (<http://12.102.97.49:1111>) brings up a totally different login page. We have dubbed this "The Back Door." We think this page was set up for technicians who are too busy to be limited to 60 minutes. This IP address also has port 80 open, with a similar

'backdoor' login page. Except there are some subtle differences in the HTML. A curious traceroute on 12.102.97.49 showed that this was the first and only hop, meaning that logging in like this was local to the network of the pentest. At McDonald's we were in. We believe that other locations have similar backdoors which in theory can be fixed with tracraceroute and a port scanner (just search all the ports for 1111 and you may get lucky.)

Logging in through the backdoor allowed our comp to connect to the network but like this was local to the network of the pentest.

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If there is anyone out there who has played with wireless at McDonald's, we would love to hear from you. We are planning a follow up article for when the pilot period is over and the service is no longer free. And of course, we wouldn't leave you without giving you some tips for the backdoor.

Wrapping Up

If there is anyone out there who has played with wireless at McDonald's, we would love to hear from you. We are planning a follow up article for when the pilot period is over and the service is no longer free. And of course, we wouldn't leave you without giving you some tips for the backdoor.

cr0ft52517

Attack42387

awes0nIT&3

ck0nf77956

Shout and Roar:

Everyone at port7alliance.com

is interested, risultato,

standardize.com, MADON,

and mcdwireless.com.

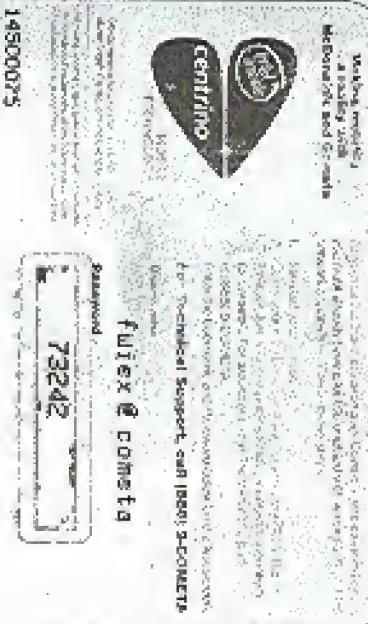
60 Minutes FREE Wireless Internet Access*

*

Visit www.mcdwireless.com for details

McDonald's Restaurants

Carnetta



73242

802.11b Reception Tricks

by ddShelly

Since the article "Comptelabs' Guide to 802.11b" in 19.2, I have had first-hand experience. I would like to acknowledge dragon for all well written articles. I also would like to acknowledge chickdansen, scottswichhausen, and tenn pointnet for the information contained in this article.

Surprisingly because of a dispute with Time Warner and the landlord, a cable internet connection is not available in the apartment building in which I live. DSL is available, but seemed a bit

steep at \$50 a month for a 128K line. So I comsized wireless. However, my wireless card and router on the Upper East Side of Manhattan are few and far between and my rather ardent Nopar wireless can't touch the noise inside. So I looked around for an 802.11b card that has provisions for an external antenna and selected the Tuxera Orinoco Silver. It's a 4-division VEP card, only one of which is cheap on eBay. So to make that adapter fit correctly on the Orinoco card I used an N male connector from RadioShack.

There are several types of connectors used in the 802.11 world that need mention. The most common is the N-connector. These are usually found on the antennas themselves and it seems that this is the norm. The antennas I have chosen are thus far all equipped with a female N. The other side of the case (pigtail) has the connector that will attach to whatever device you are connecting to. Here is where I got a bit hairy.

Devices like access points or wireless bridges can come with a BNC-, TNC-, or an SMA connector. Connectors on the WiFi NICS depend on the model and manufacturer of the card. To complicate things just a bit, all of these connectors are available in reverse polarity. Simply put, the small gold pin in the center of a BNC is a male pin. On a reverse polarity BNC, the gold pin is female. The reverse polarity connectors are normally indicated as an RP-BNC, for example. Just for reference, BNC is an acronym for British Naval Connector, TNC is a Threaded NNC, and SMA is Subminiature type-A connector. All of these connectors, I suspect, originate from the military.

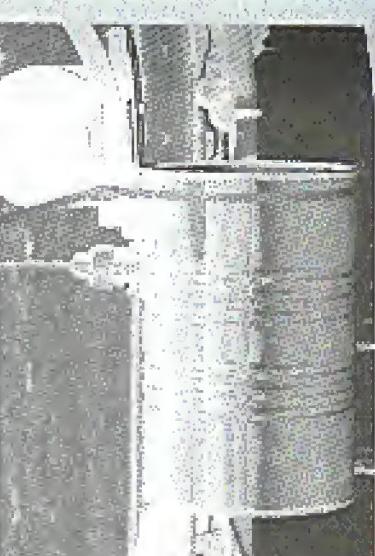
A search on Google revealed a few sites with

modest wireless information. I could find www.wirelessinfo.com and is a good place to start if you're new to this like I was.

My first antenna was the famous Pringles Yagi. I constructed it exactly as laid out on the <http://www.wirelessinfo.com/wirelessinfo/antennas/pringles.html> web site and found significant gains as compared to the Orinoco card without any external ant-

enna. A total gain of 11 dBi was the best I could do with the addition of a Pringles can as compare to the Orinoco card itself.

The other antenna choice is the wave-guides copper pipe. The construction of the wave-guides is easier since it does not involve the use of a threaded rod and washers as the Yagi does. The can itself and the addition of an N connector with 10 pieces of copper wire is all that's needed. For the copper pipe I used a piece of grounding wire from common household electrical wire. With the simplicity of the wave-guide construction, you can sacrifice many coffee cans or no signal myself. The ideal wave-guide antenna for 2.4 GHz is about a 3.25 inch diameter and just shy of 10 inches long. Good luck trying to find those dimensions in a coffee can or anything for that matter on the grocery store shelf. But this being said, there is no harm in experimenting with what you have lying around the house. I first tried an N source Maxwell House can. I mounted the N connector accordingly at one quarter wavelength from the back of the can as calculated by



the formula above. I then took the antenna to the park and dropped it on the ground. So then I thought, do I have to spend even more money for a higher gain dish? Well, not quite. I had a handi script located at <http://tinyurl.com/2yjw2ew>. I printed it out and followed the directions. As compared to the Pringles can, the Maxwell House can gave me an additional 3 dBi.

As compared to the Pringles can, the Maxwell House can gave me an additional 3 dBi for a total of 14 dBi. Keep in mind that every 1 dB is a doubling of the signal. A loss of 3 dB in noise is as good as an overall gain of 3dB with respect to the signal. To make ratio interesting thing happened. Using Network Simulator I picked up three more access points that I did not see before. This could be due to the additional gain with a larger diameter can so if my theory was true I chose the Folgers 39 oz can. I chose the Folgers 39 oz can and cut a hole extending to the handle slot on the unprinted. I reused the N connector from the 11 ounce Maxwell House can to avoid unwanted variables. As I turns out, the gain fell slightly to 17 dBi but I again reduced two additional access points according to Network Simulator. With the 39 ounce can I now picked up a total of 11 APs as compared to nine APs with the 11 ounce can. Of these APs by far were their showing up in the list printed in the Fall 2002 edition of 2602, and still remain unprinted. For those of you who are watching, the larger wave guide from a 39 ounce can seems close appropriate than the Pringles Yagi or a wave guide closer to the 3.25 optimal diameter. Although you may prefer something more directional like a trash antenna, the overall gain is typically lower. So if you are looking for directivity in the signal, then stick with narrow diameter wave guides or Yagis. If broad coverage is what you're after then go with wide diameter wave guides or trash antennas.

Having established the difference in gain and beam pattern associated with the size of the can, I launched a quest for the ideal 3.25 inch diameter. I needed as much gain as I could get just to reach the nearest wireless node closest to

me. I decided to just spend the dough for a commercial 2.4 GHz anechoic box & dish style that has an advertised gain of 12 dBi. The noise on this commercial antenna is slightly lower than any resonance antenna I had ever studied, so the overall signal to noise ratio goes in my favor by about 3 dBi. Despite this, the signal to noise ratio was still not enough to give a consistent connection and dropped were still too common. So then I thought, do I have to spend even more money for a higher gain dish well, not quite. Despite Care,

Ah... well sort of. It actually looks like the 3.25 x 10' feed while shopping for new rubber blocks at Spenc Authority on Long Island. I noticed a tennis ball can. Most tennis ball cans are now made of the same plastic as soda bottles. But this one is a bit different. Wilson makes an oversized tennis ball for the generic crowd that just so happens to come in a steel can that's 3.25 inches diameter. And the king on that take is that the length is just about 10 inches. My guess is that one is a bit different. Wilson makes an oversized tennis ball for the generic crowd that was \$2. I purchased a plastic one just at 2.49 from from the Isotoner and mounted the N connector on the unprinted net scripture. The results were 17.5 dBi gain just enough for what I needed to get a clean signal to the AP. Now 17 dBi for a tennis ball can is nice gain for the money than you might imagine. A commercial antenna at 12 dBi like the one I bought cost up to \$80 and does not include any green things to play with. The drawback is that I had to sit near the windows with my laptop. My pigtail would only fit one stay half full.

Two Weeks Later

This new Lantech WET11 is solid as a brick, or an AP. Lantech WET11 is sold as a bridge, or an AP, essentially giving a Cisco-style cousin the ability to go WiFi on. Among two of those WET11's, I connected wirelessly to each other to bridge two wireless networks. Upon to sticking and passing to expand to six other WiFi things was good for I wanted to connect through the WET11 with an AP already bad laying around. So, I picked up a reverse polarity SMA to N male pigtail from eBay.com to hook up my Wilson antenna to the WET11. First, the WET11 output is rated at 7dBi, which is more than most WiFi cards and more than twice the rated output of my Orinoco

Sized. With an antenna wider than the rubber duckie mast provided there is the potential to store serious range. Also, I wanted to see if I could set up a base or repeater. So I took the 10 base output from the WiFi and plugged it into my cheapo Netgear AP and set the Netgear to a different SSID from the WiFi. The results? No Internet access in my New York City apartment wireless. And with the WiFi sitting on my windowsill and the antenna on the fire escape. I have the ease of surfing from my kitchen table or anywhere in my shadowed apartment without having to contend with the limitations imposed by the four foot pigtail that connects my antenna directly to my Orinoco card. And with the bigger output and increased sensitivity of the WiFi versus the Orinoco

card, the speed was good enough to give me Internet access in my New York City apartment wireless. And with the WiFi sitting on my windowsill and the antenna on the fire escape. I have the ease of surfing from my kitchen table or anywhere in my shadowed apartment without having to contend with the limitations imposed by the four foot pigtail that connects my antenna directly to my Orinoco card. And with the bigger output and increased sensitivity of the WiFi versus the Orinoco

used. I can use that dish I bought without feeding you the spending \$60 bucks for it.

Another Wave Guide Idea

There is another design in waveguides that performed by a single computer frequently enough to sufficiently saturate the victim's connection so that its services cease. If the attacker can pull up to 18 dB it must be careful. If you take stations off WiFi poorly constructed, you can still obtain 13-14 dB. The details on this recent from the material used to make your typical waveguide can be found at www.waveguide.com. It is constructed using a plastic can and case it is an adapter (sometimes referred to as a waveguide) to go from a five inch dish to a four inch dish. This acts to increase the radio waves as located before they enter the can amplifying the overall gain by as much as 5 dB. Experimenting with various sizes and lengths can be rewarding and who knows? You might stumble onto something.

DISTRIBUTED SERVICE REFLECTIVE

by Sigrockbot

<http://hypervariable.com>

The purpose of this article is to educate those with an interest in Internet security. I would explain the acts described below and neither should you. Hosting services online costs someone money. Find more constructive way to express your opinions.

I'm a college student, not a professional (dramatic, Jim). Sorry if something I've said is inaccurate. GIGG.

The worldwide Internet is composed of an overlapping array of hardware that directs small fragments of information along various temporary pathways from source to destination. Because of the notoriously high volume of traffic continuously flowing through the virtual veins of the Internet, it is possible for wayward individuals to harvest the services of the powerful hardware at the system's logical core without detection, for example, to attack the systems of their choice. One such attack that is particularly effective and undetectable by the managers of intermediate communications hardware is the Distributed Refective Denial of Service (Distributed DDoS) attack.

DDoS is the latest in the series of Denial of Service attacks. An explanation of the history of this type of attack is in order to fully understand the ramifications of this new threat.

The supposed Denial of Service (DoS) attack is one of the more common attacks by "script kiddies." A pre-greed motivated individual can effectively perform such an attack on the target of their choice with little effort. Denial of Service is the result of local routing hardware being overloaded with transit peer interconnections. Specifically, DoS is the result of exploiting vulnerabilities in the TCP/IP 3-way handshake which a client and server become aware of each other by swapping synchronization packets. Occasionally, a SYN packet will become corrupted causing it to be misinterpreted by the computer on the other end. Servers allow such packets a short grace period before abandoning them. Altering the source IP address of an outgoing SYN packet hides the origin of their source and denies the converse computer its attempt to synchronize with a nonexistent (or unconnected) host. When this occurs incorrectly (which it does, regularly and randomly, however infrequently) the overhead in negotiating resources is

resource-hungry and horrendous. But when executed by a malicious individual, this can be performed by a single computer frequently enough to sufficiently saturate the victim's connection so that its services cease. If the attacker can pull up to 18 dB it must be careful. If you take stations off WiFi poorly constructed, you can still obtain 13-14 dB. The details on this recent from the material used to make your typical waveguide can be found at www.waveguide.com.

Another

Another</

FUN WITH THE NOKIA 3360/3361

by FragSpan
fragspan@fragspan.com

When I first got my Nokia 3360, I was immediately interested by the "AT&T" (aka) alpha tag permanently displayed while the phone was in standby mode. This feature will, unlike here, change the alpha tag and network settings to the Nokia 3360 and 3361. Also, I will explain the "secret" menu options (or what they are). With open-

Nokia 3360/3361

my knowledge, identical. The 3361 phone is sold exclusively to prepaid customers (no simlock). The 3360 can be purchased by any AT&T customer willing to sign a contract. My guess is that the 3361 is simply a way for AT&T and Nokia to identify prepaid customers by model number.

Field Test Mode and Security

The alpha tag can only be changed while in Field Test mode. To enter Field Test mode type *366#12345# or the main standby menu. This will allow you to go into with the following options: NAME1, NAME2, NAME3, Security, Transparency, SW version, Serial No., Prepaid/Postpaid, and Field Test.

NAME1 is where the alpha tag can be changed.

Before getting into the details of this option, let's take a look at the other menu options.

The "Security" setting is basically anything but! The "Security" setting allows the security code to be changed, without verifying the original PIN. The default code is 12345 and is probably the same on all Nokia phones (so no need to compare those cell phone sales people too much). As far as I can tell there is no way to change the Field Test mode PIN from the default *366#12345#. Since entering Field Test mode does not require knowing the security PIN, this effectively leaves the door open for anyone to change the security PIN on any Nokia phone without knowing the original PIN. Thus locking out the user from "secure" options such as restricting all incoming and outgoing calls.

Notice the string 12345 appears both in the Field Test mode PIN and as default Security PIN. I was hoping that changing the security code number, a Customer System ID, a 2-4 digit value, to Operator (SOC)'s value, as well as a security code. The SOC value appears to be 2049 in all U.S. AT&T service areas and the U.S. con-

tinued to add, no alpha or special characters are allowed. Thus, the total range of possible PINs is 5 million (00000-99999). Leaving exactly 10,000 possible PINs.

The "Emergency" menu contains three short entries: Emergency 1 is set to 911, Emergency 2 is set to 911, and Emergency 3 is blank. All three can be changed to any 3-digit number. What, no long-distance emergency service?

"Serial No." is, well, the 11 digit serial number. It includes the ISSN number as the last before the battery. It cannot be changed.

"Programmed" supposedly contains the date of programming, but my phone had MMYYYY listed. I changed mine to DDMMYY and learned that once changed it cannot be changed again!

"Field Test" has a sub-menu with Enabled, Enabled/Alpha and Disabled. It is set to Disabled by default. I was unable to do anything different, or change any differences with Field Test Enabled.

Changing the Alpha Tag and Programming Alternative Networks

Note that we have looked around the main menu. It's time to change the alpha tag. While in Field Test mode, select NAME1. Here there are several options (including an Alpha Tag option). Changing the alpha tag in this screen will not affect the alpha tag displayed on the phone screen.

Apparently, the default tag "AT&T" is programmed out of reach, even in Field Test mode. We need to go one level deeper by selecting TRIDESID# keys. This will open up a list of PHSID# keys, numbered 1-5.

These keys allow alternative network settings to be programmed in, which in turn can be selected in the "System" menu later on. Thus, it is possible to program in five separate possible networks, anywhere. This is great for maximizing your custom alpha tag when traveling and not using Nokia phone without knowing the original PIN, thus locking out the user from "secure" options such as restricting all incoming and outgoing calls.

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Why Redboxing Still Works (sorta)

by Phatmatic Shadow
phat@kevin.net.com

Everyone says that red boxing doesn't work

anymore. I've heard about 40 different explanations for it and I think it's rather annoying. Sure it was one of the "easier" sometimes considered "beginning" levels of penetration, but it still keeps within the brevis of the field.

Why doesn't it work anymore? For starters, AT&T stopped accepting calls for long distance calls. That's probably the main reason. It doesn't seem to work for local calls either or so I'm beginning to wonder.

With all this in mind, I had quite the expert since a few mobile rigs. After I read in various places that it did work, I ran out and tried it. I jacked off the old cell data and popped in some fresh batteries. I went to the nearest gas station and AT&T no longer accepted coins. Unfortunately the old local method of going through a payphone didn't work, either. I had gotten pretty good at this point, when I finished, she "reclaimed" them and said they didn't go through, asking me to try once more. I went through the process again and this time she said her usual, "One received."

While she was doing this, I asked her if she was just being nice and putting my call through if my coins had finally registered. As it turns out, she was just being nice.

The whole point of this is that if you soundin'

reverent, desperate, and/or nice, your call will be put through. It's kind of like social engineering.

The red box serves the function of tricking the operator into thinking you signed coins instead of the computer.

Basically, if you're on the line with a half-baked operator, you'll call will be put through just for kicks. So, dial off the red red boxes, get some fresh A&A batteries, and start your calling.

If you have questions, comments, thoughts, or observations, feel free to respond. I'm interested in hearing them.

WE THE PEOPLE ARE KING IN A STATE OF EMERGENCY because or the like can get his or her hands on a digital copy of a book, CD, or anything else. But what the books and its backers. But at the same time, if the original software really need to do is mark and hand those book they distribute their files. As someone who knows a lot about running movie theaters, I can tell you this book is not like any other book in almost every part of the business and it's like an almost glassless shell of the time as to what happens with their prints of film. They are also doing something else. They are supposed to be picked up and shipped off to the distributor, where most of the other prints are destroyed. Or they are destroyed or not. This is for showing. But of course, some prints are retained, which leads to the distributor have prints of prints, which leads to the distributor taking home prints. Prints, or just some of them, are sitting in a generation room for a long time.

Why do I say all that? Because in the book distribution for the past two years there has been a certain argument over whether to begin delivering files to the media digitally instead of physical, etc. The film would be sent from a "secure" server such that it is being encoded somehow along the way. This is really just an overstatement to the point that nothing has been done, but it is being discussed. It is also said to me, however, in my eyes, that anyone who knows anything about computer security knows that this is a ridiculous idea. While the "industry" has many plans for encrypting the files that could be delivered to theaters and then decoded, it is still possible for anyone to try to do so. So should we let these files be recorded by the instruments to their HDs. That would also allow access to the files used in Japan and some other countries with illegal reverse engineering. Then digital they need to make sure they don't ever concern themselves, because it does not matter how tight a file is, the physical world user security is. If someone is working for the other side within your side, you have to call your security.

Article Clarifications

Dear 2606:

In my article to 26-2, "Fun with Hosting on the Internet," I mention that I use a "relaxed" domain IP/DNS service. Unfortunately, they have since left their service and the service, I believe, is another such service, but sometimes I can't resolve my records that are hosted there. I also went over to adding coloed "Cloud Update." This includes a list of other dynamic IP/DNS services, but I don't know which one it works well. If anyone out there knows of a good dynamic IP/DNS service, please let me know.

Toby

1. <http://www.funwithhosting.com>

QuickList

2. <http://www.funwithhosting.com>

QuickList

3. <http://www.funwithhosting.com>

QuickList

4. <http://www.funwithhosting.com>

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5. <http://www.funwithhosting.com>

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only is no that high and passing surface frequencies of 25 kHz, sampled at 44 kHz is accurately encoded digitally. Without overhead (one finger on the wire and select), I could at least see 160 bits of data, often in an RF channel 1600 bits/pulse, that adds up to digital form.

As is transferring computer data, the simplest form is binary. However binary is not very efficient, twice the size of the Bell 205 and 212 modems, a voice was sent for Mark 11) and another for Space 10) to transmit the data. This was fine for 300 and 1200 baud rate speeds, but going beyond that is a real problem, and modulation schemes just needed Quadrature Amplitude Modulation (QAM) is used by 600 baud modems and higher data rates by Quadrature Phase Shift Keying (QPSK). It looks like PSK, and other exotic schemes allow for higher bandwidths (data rates) to be passed over a certain bandwidth of RF. Radio Frequency channels, or maybe lines such as TOTS.

Then we get into compression. At the analog level, FM stations compress the audio to make it louder. They do this to make their stations stand out when we're using the FM dial. People tend to stop and listen to the louder signal that is pleasing to their ears. Digital compression, such as the ones mentioned in the article makes the digital circuit more efficient to transmit. Like compressing a zip file. You do lossless compression with something digital compression.

Analogue 100 of XM 14 Stations will probably never be CT quality in the world is not perfect. A lot of error correcting goes on and of course dropped data looks. All kinds of things can help in a radio signal carrying 22K radios. Even CDs are less perfect audio compared to what the artists put onto the master tapes of never write ones off of the master tapes. Listen to all of the audio output of a CD player or a radio. You'll notice that some songs, but not all, but that is an audio file can of course. Artists did give some local for regions. If it is not local up, it becomes the inside, of XM and Sirius receivers. That the companies are happy to hear that.

There may be 5-6%, I need the same.

William K. Smith, 44884-185

181 Cumberland, Unit A-1
P.O. Box 1000
Carrollton, MD 21501

Clearing Blockages

Dear 2600:

Two things many people complain about a CPU being blocked by their school or some other place. To get around this is fairly simple; find anonymous public proxy servers. This works in my school, but I don't know about others. I would imagine the same thing would work.

One I happen to like is <http://www.anonymouse.org>.
I used all the time and can use the rel without the violation of terms of service (granted my school has to do this when trying to use sites, some of which are even & less censored).

Dear 2600,

I realized there were 2 loc of letters sent to complain about the filtering software at schools, etc. And with the above, much does work most of the time.

Hi my experience anyone? I've come across a better method!

A really nice C# script called C#History (you can get it at <http://www.muhimbi.com/Products.aspx>) allows you to process multiple log files for you to visit a particular file you liked (it's only for you to visit a particular file you like to do, and the script only uses a webserver and curl). So if you want to visit a filtered site, it's not. However,

or relate to get this help, I found that Histman (which is a small tool that helps in location itself, that you have inserted and run in) you just type the site you wish to visit in the form. You can also customize your browser's address bar to show checkboxes below the form, which allows you to disable checkboxes, strings, ads, or other information. Then, little script will insert those to browser automatically and works every time (no need to know about filtering software. I've even heard it work for people in China).

There are instructions on <http://www.muhimbi.com/Products.aspx> that explain how to do this. Just for setting your home computer up as a web server using this method, which includes installing SSL so it should let you into your Gmail account, etc.

If you install this on a desktop, I strongly suggest you keep a password on it, or at least change the name from "My-Computer". In something like "My-Desktop.cgi" to avoid it being used for anonymous attacks.

Bullet

There may be 5-6%, I need the same.

Dear 2600:

This is in regards to "2600 Reader" in issue 30.1 who was having problems installing XP Pro. He's due to their schools proxy. This gives me off. I also have internet filtering software (Windows Firewall) which blocks 2600.com on port 443. After doing some research, I understand that blocking this can be extremely when you want something a little stimulating. So here is lots of many solutions. There is a good chance your IS department hasn't blocked websites that allow you to connect through a blocked website using 128 to 850 encryption. One of my favorites is <http://www.anonymouse.org>. This site is especially designed for anonymous sessions. This site requires no additional software or active a controls to be downloaded and works great. You can read more in detail on the site as I want to keep this short. Hopefully this helps, and I'll steady check that there are more updates to the reader.

One I happen to like is <http://www.anonymouse.org>.

I used all the time and can use the rel without the violation of terms of service (granted my school has to do this when trying to use sites, some of which are even & less censored).



by Bill Melander

relativity@relativity.com

Remember the old days when a good way to see the best software was to get 2 groups together to buy it and then trade copies for everyone? Now though MS killed that with their one-stop-shop license servers for the XP users, <http://www.microsoft.com/windowsxp/professional/>. Edition trial act just like the genuine article. Don't they wish. In this article the author will show a realistic way that the average user can still be a bit of good place-to-place file sharing software and a CD writer or one copy of wireless XP Professional Edition trial act just like the genuine article. The information presented in this article is presented only to show the weaknesses of Microsoft's latest copy protection software. Do not come crying to the author if you use this information inappropriately and a massive horde of Microsoft attorneys descends upon you and pick your pockets clean.

Fire a little bucky board on Windows XP, which comes in many forms. The Professional Edition comes (at least) these boxes. A asterisk for someone to add MSDN for developers and consultants. Retail editions MSDN for developers and consultants. Retail boxes OEM for small company makers and volume license (or "Corporate") for companies that buy hundreds or thousands of copies at a time to distribute across their enterprises. All the various editions need a monitor key in order to be installed and activated; we'll all seen that little yellow label on the back of an MS product with five groups of five characters.

Most of the flavors of XP require the installer to extract MS for permission to use the software - the infamous "protect activation" step of the install. When you're in Windows XP you send them a long number and they send you a long number in return. The long number you send them is generated by clicking series numbers on the CD key as well as session generalized information about your computer (no, you can't identify your individual machine). The long number they send you is called the Activation Key. Previous to the release of Service Pack 1 for Windows XP you could activate a copy of Windows

XP Pro by using a key generator (e.g. the famous List key gen) to generate a product key and walking through the activation process just like you had the little yellow label. However, after Service



Pack 1 was released, MS began validating the prod-

uct keys submitted for activation against a database of all the product keys that had already been submitted to activations, and it became impossible to use

a fake key to activate more copies of Windows XP on so good if you wanted to install the software on multiple PCs. It often won't recognize hardware other than that which it came with, and most major manufacturers don't even supply Windows XP PRO to such with their machines; they instead merge it with the other bundled software.

The other flavor of XP Pro that doesn't require activation is the Volume License, or Corporate, flavor. The story behind it is that sellers at large corporations don't want to make 1000 calls to MS every time they roll out 1000 new PCs, increasing costs. When a user reports a problem with his PC, he claims simply replace all the software on the machine. On instructed to send him in to do any necessary troubleshooting or walk away to the user's desk. The way the installer works for XP Pro Corporate is that the installer enters the Volume License key and then in does it's enough re-install and activate the software - MS is never contacted. The installation process can then be automated and made invisible to the user, saving the admin a lot of time.

It ought to go without saying that anyone who wants to install Windows XP on multiple PCs needs the Corporate flavor. The problem is that the user (and I'm simply doesn't have access to a CD that contains the Corporate flavor of Windows XP). But most people know someone who's bought a computer, or will find someone who's willing to pay for a share of a copy of a licensed OS. If that's the case, copying the software available to more than one computer

isn't the step-by-step guide:

1) Obtain an off-the-shelf copy of Windows XP and copy every file on the CD into a storage chip (this instance, you just have to copy maybe 200-300 files).

2) Obtain the files that are different between the off-the-shelf retail version of Windows XP and the corporate flavor. This is one of the harder steps. There are 11 files that are different between the two flavors of XP:

DPC.DLL

TULAPI.TEX

NTESSIGA..

QUMBDS.BI..

QEMBDS.CA..

OEMBIOS.DA..

OEMBIOS.SI..

FLEXGEN.BI..

SELUPINI..

SETI.PRG.HIV..

WIN32KUPG.WIN32KUPG.HIVE..

All the files are located in the USP-4 directory on the Windows XP CD, rather than the Service Pack 1 in the WIN32KUPG subdirectory of USP.

The "corporate" versions of these files are not widely available, but they can be had from various P2P-to-P2P file sharing services, often in a package named EXPSERV, containing Structures, the package will run with hardly noticeable differences.

3) *Stoppe die Recovery, bzw. den deinstallierungs- davor. You can usually just extract the ZIP right into your bolting directory and the file will go where they should. In order to help me verify that the package actually contained different files than I saw on the Internet, I extracted mine to a temporary directory, renamed them by name to their final destination. Note that *not all* of these files are absolutely necessary - EII.A.TXT, for example, has no bearing at all on whether you can make a copy of the software, except to advise you of how it legal to do so.*

4) Download the Service Pack 1 installer from MS's web site and skip steps 2 through 6, holding down *alt*. This step is necessary if you just want to get a copy of Windows XP. But if you're going to burn it to a CD, why not do it right? During this step, now will save you the long process of applying SP1 after you install. To skip ahead the service pack, extract this command:

SPSERV /F /S /R /E /G /W /M /A /P /O

I also wrote this command of Service Pack 1 is called XPSERV.FIN. If you download it from M\$ and don't change the names and that your file set is in the C:\DOL\EXPSER\ directory. You have to supply the complete path for the root directory of your file set or the service pack itself will just copy a huge number of files to a temporary directory and then error out.

5) *Abbildung einer fiktiven Abfolge von Tools, welche die Anleitungswerte, I made a subdirectory called Tools in mine and put all the Power Tools for XP here. It along with the Bin List key generator, a tool which generates a file of known good tool-*

set keys, instructions for making a bootable CD.

6) *Obtain the Boot Key Generator for Step Windows XP Professional Edition.*

The Windows XP install routine does not run if the file is ignored by the installer so feel free to keep other things handy on the disk.

It could take a few hours of careful searching to fully get this program off the net, or long waits to download with a file sharing service. It's almost impossible to search for the program by name, but it usually can be found packaged in ZIP files with names like "Windows XP Crack" or the like. It is a self-extracting program that makes one candidate key at a time and then tries to validate it by using an algorithm like the one Microsoft's software uses. The tool says how it found a cluster set - some bytes and numbers are often used to Microsoft products - but the key space is still very large (around 10^25). Only about five percent of the candidates pass the program's test, and only about half of those will be accepted by Windows XP's product key software.

If you take the better part of an hour to generate enough product keys to accomplish success, Open my AthlonXP CPU, it takes about 20 seconds for the program to generate one candidate key. In the Boot Key generator, pick "WIN 2000/XP/2003" and then click "Generate".

Another nice thing you can do is create a plain text file in the \SPG directory called WINNT.SIF and put these lines in it:

[DiskFormat]=F:\KGW\RHQ\2\XRT\STG\SIF

[DiskFormat]=2003

Repeat the process of extracting the SIF, with PCK with your good product key. Repeat doing this before you know for sure that your provider key will work, as it could cause you to waste a CD or two. If you have this far, you will not be asked to input the product key during install. This is what allows the user to save themselves 25 key-crack cycles since they could simply remove the key.

Note: Do not attempt to use the above product key to trial Microsoft's Microsoft-specifically targeted Boot Key with Service Pack 1, disabling its

ability to activate.

Finally, the last step is to boot the system into the system tray that indicates your key is generated. Another way we can use the copy of Internet Explorer that comes with Windows XP and visit <http://www.winxpdownloader.com>, which will now offer updates to a copy of Windows XP. This is not required, although I see it is, copy all the sources and therefore share its notorious vulnerability.

5) Verify that your copy of Windows XP is already activated. There are three ways to do this. The first way is to look to see that there is no blanking icon in the system tray that indicates your key is generated.

6) If trial mode, Microsoft specifically targeted Boot Key with Service Pack 1, disabling its

ability to activate.

7) Use your favorite burning software to copy

a bootable CD-ROM using your .iso file. I used a real-time utility that generates a bootable ISO on the fly and burns it to a CD. You should end up with four files in your Tools folder:

EXPSERV.FIN, WINNT.SIF, and a

BINLIST.BIN.

8) Verify that your activation status is

whether Windows XP is activated and leads you through the activation process if not. Rather than accepting you for your license key (burning it).

8) *Install Windows XP Professional Edition and one that were specifically offered for a personal use. It is referred to as "Home Premium Edition". This simply is not true, it will always when XP is set up, but the file is ignored by the installer so feel free to keep other things handy on the disk.*

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download with a file sharing service. It's almost impossible to search for the program by name, but it usually can be found packaged in ZIP files with names like "Windows XP Crack" or the like. It is a self-extracting program that makes one candidate key at a time and then tries to validate it by using an algo-

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advances process. The resulting window should simply say "Your copy of Windows XP is already activated." I like to run this command every so often, just for the peace of mind.

"Do It" button. But because of a few things. Non-

malicious reasons than those of four companies

in a Windows XP computer will cause it to not to be reactivated. If that were the case here, the most likely would have to find a way around the

Windows XP activation process again. There are several ways to do this. Finding them can I leave as an exercise for the reader.

Rear in mind that the service described above could be contrast to US and international copyright law, and to security do they could lead to legal trouble.

MS Product Keys. I do not know what will happen to a violation that is running a copy of Windows XP that was obtained by the method described above if

MS should find up their copy-generation effects. A lot of people who used the famously cracked popular key to install Windows XP were told not to do so.

when Service Pack 1 was released and have not been able to enjoy its benefits. Microsoft would normally be within their rights to engineer Service Pack 2 to leave everyone with legitimate copies out in the wild, or even to destroy such software.

Microsoft has for years depended on other large companies for the bulk of its profit, and only recently began giving to them. In June massive amounts of copyright violation that had been going on before individual users. Meanwhile they had to keep their original customer base, the corporations, happy. The beauty of this whole thing is that it is possible to use those huge corporations against each other. Microsoft's dependence on other massive corporations has left its owner, Microsoft, protected

software with an Achilles heel that the big guys can't exploit.

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